Confirmation No.: 8274

Applicant: MARTINSSON, Par et al.

Atty. Ref.: 02303.0005.PCUS00

LISTING OF THE CLAIMS:

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1. (Original) A flange assembly for supporting a scavenging air supply to an internal combustion

engine at a carburetor associated with the engine, said flange assembly comprising:

a thin-body flange configured to be abuttingly installed upon an end surface of a receiving

carburetor in which a combustion air intake is located;

a combustion air aperture extending through said thin-body flange, said combustion air

aperture being located in said thin-body flange for alignment with the combustion air intake of

the receiving carburetor for establishing fluid communication therebetween when said thin-body

flange is abuttingly installed thereupon;

a scavenging air aperture extending through said thin-body flange, said scavenging air

aperture being located in said thin-body flange and spaced apart from said combustion air

aperture; and

a valve assembly operatively coupled to said thin-body flange and having a valve element

positioned at said scavenging air aperture for opening and closing said scavenging air aperture.

2. (Original) The flange assembly as recited in claim 1, wherein said thin-body flange is of one-

piece, predominantly flat and rigid construction thereby affecting precision-location of said

scavenging air aperture relative to said combustion air aperture and also facilitating precision-

placement of said scavenging air aperture with respect to the receiving carburetor when said thin-

body flange is installed thereupon.

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3. (Original) The flange assembly as recited in claim 1, further comprising:

fastener accommodating apertures extending through said thin-body flange and located to

align with assembly screw receivers in the receiving carburetor when said thin-body flange is

installed thereupon thereby facilitating precision-placement of said scavenging air aperture with

respect to the receiving carburetor when said thin-body flange is installed thereupon.

4. (Original) The flange assembly as recited in claim 1, further comprising:

fastener accommodating apertures extending through said thin-body flange and located to

be offset from assembly screw receivers in the receiving carburetor when said thin-body flange is

installed thereupon.

5. (Previously Presented) The flange assembly as recited in claim 1, further comprising:

said scavenging air aperture being oblong in shape through said thin-body flange for

establishing an inlet to a multi-branch manifold when said flange assembly is installed on a

receiving carburetor and included on an internal combustion engine.

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6. (Original) A flange assembly for supporting a scavenging air supply to an internal combustion

engine at a carburetor associated with the engine, said flange assembly comprising:

a thin-body flange configured to be abuttingly installed upon an end surface of a receiving

carburetor in which a combustion air intake is located, said thin-body flange having thickness,

length and width dimensions;

a combustion air aperture and a scavenging air aperture each extending through said thin-

body flange and across said thickness dimension and spaced apart, one aperture from the other;

and

a valve assembly operatively coupled to said thin-body flange and having a valve element

positioned at said scavenging air aperture for opening and closing said scavenging air aperture.

7. (Original) The flange assembly as recited in claim 6, further comprising:

said length and said width dimensions of said thin-body flange are greater than said

thickness dimension; and

said combustion air aperture and said scavenging air aperture each has a longitudinal axis

extending substantially perpendicular to a longitudinal axis of said thin-body flange.

8. (Currently Amended) The flange assembly as recited in claim 6, further comprising:

an axle axel of said valve assembly being positioned at said scavenging air aperture on

said thin-body flange for associating a valve element with said scavenging air aperture.

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9. (Original) The flange assembly as recited in claim 6, wherein said thin-body flange is

configured to substantially cover an end surface of the receiving carburetor when said thin-body

flange is installed thereupon.

10. (Currently Amended) The flange assembly as recited in claim 6, further comprising:

an axle axel-for a valve element of a butterfly valve, said axle axel-extending across said

scavenging air aperture and being rotatably supported in axle axel-apertures in said thin-body

flange.

11. (Previously Presented) The flange assembly as recited in claim 6, further comprising:

a pivot hinge receiver, said pivot hinge receiver positioned adjacent to said scavenging air

aperture on said thin-body flange for associating a flapper-type valve element with said

scavenging air aperture.

12. (Original) The flange assembly as recited in claim 6, wherein among the dimensions of said

thin-body flange, said length dimension is greater than said width dimension, and said width

dimension is greater than said thickness dimension.

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13. (Previously Presented) The flange assembly as recited in claim 6, further comprising:

said valve element being rotatably coupled to said thin-body flange and being constructed

at least partially from a buffering material that is softer than the construction material of said

thin-body flange thereby facilitating a seal between said valve element and said thin-body flange

when said valve element is positioned in a closed configuration.

14. (Previously Presented) The flange assembly as recited in claim 6, further comprising:

said valve element being rotatably coupled to said thin-body flange; and

a buffering component positioned between said valve element and said thin-body flange

in a closed configuration of said valve element, said buffering component constructed from

material softer than material used in construction of said valve element thereby facilitating a seal

between said valve element and said thin-body flange when said valve element is positioned in

the closed configuration.

15. (Previously Presented) The flange assembly as recited in claim 14, wherein said buffering

component is a lip formed substantially about a perimeter of said valve element.

16. (Previously Presented) The flange assembly as recited in claim 14, wherein said buffering

component is a liner positioned at least partially within said thin-body flange and having a

surface portion exposed to said valve element for engagement therewith in said closed

configuration.

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17. (Previously Presented) The flange assembly as recited in claim 6, further comprising:

at least one pivot hinge receiver, a leveraging extension and a flapper-type valve element,

said pivot hinge receiver positioned on said thin-body flange remotely away from said

scavenging air aperture at least as far away as said combustion air aperture, and together with

said leveraging extension, positioning said flapper-type valve element to open and close said

scavenging air aperture.

18. (Previously Presented) The flange assembly as recited in claim 17, wherein said at least one

pivot hinge receiver includes a plurality of pivot hinge receivers, each of said plurality of pivot

hinge receivers being positioned on said thin-body flange on an opposite side of said combustion

air aperture away from said scavenging air aperture for associating a flapper-type valve element

supported on a leveraging extension with said scavenging air aperture.

19. (Previously Presented) The flange assembly as recited in claim 18, further comprising:

a plurality of leveraging extensions, each leveraging extension being coupled to said thin-

body flange by a respective pivot hinge; and

said flapper-type valve element being attached to each leveraging extension at a remote

position from a respective pivot hinge.

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20. (Original) The flange assembly as recited in claim 6, wherein said scavenging air aperture

and said combustion air aperture are positioned one above the other when said thin-body flange

is abuttingly installed upon the receiving carburetor.

21. (Original) The flange assembly as recited in claim 20, wherein said scavenging air aperture is

positioned above said combustion air aperture when said thin-body flange is abuttingly installed

upon the receiving carburetor.

22. (Previously Presented) The flange assembly as recited in claim 20, wherein said scavenging

air aperture is positioned below said combustion air aperture when said thin-body flange is

abuttingly installed upon the receiving carburetor.

23. (Original) The flange assembly as recited in claim 6, wherein said thin-body flange is

constructed so that a predominant portion thereof forms a substantially flat plate.

24. (Original) The flange assembly as recited in claim 23, wherein a carburetor-side surface of

said thin-body flange is substantially planar for accommodating face-to-face engagement with the

end surface of the receiving carburetor when said thin-body flange is installed thereupon.

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25. (Previously Presented) The flange assembly as recited in claim 24, wherein an outwardly

directed surface of said thin-body flange opposite to said carburetor-side surface of said thin-

body flange is substantially planar and parallel to said carburetor-side surface of said thin-body

flange.

26. (Original) The flange assembly as recited in claim 24, wherein a predominant portion of an

outwardly directed surface of said thin-body flange is substantially planar and parallel in

orientation to said carburetor-side surface of said thin-body flange.

27. (Withdrawn) A flange assembly for supporting a scavenging air supply to an internal

combustion engine at a carburetor associated with the engine, said flange assembly comprising:

a thin-body flange configured to be installed upon a carburetor;

a scavenging air aperture extending through said thin-body flange;

a valve element rotatably coupled to said thin-body flange and configured to open and to

close said scavenging air aperture; and

a buffering component positioned between said valve element and said thin-body flange

in a closed configuration of said valve element, said buffering component constructed of material

softer than said valve element's material of construction thereby facilitating a seal between said

valve element and said thin-body flange when said valve element is positioned in a closed

configuration.

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28. (Withdrawn) The flange assembly as recited in claim 27, wherein said buffering component

is a lip engaged substantially about a perimeter of said valve element.

29. (Withdrawn) The flange assembly as recited in claim 27, wherein said buffering component

is formed as a liner positioned at least partially within said thin-body flange and having a surface

portion exposed to said valve element for engagement therewith in said closed configuration.

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30. (Withdrawn) A flange assembly for supporting a scavenging air supply to an internal

combustion engine at a carburetor associated with the engine, said flange assembly comprising:

a thin-body flange configured to be installed upon a carburetor;

a scavenging air aperture extending through said thin-body flange; and

a valve element rotatably coupled to said thin-body flange and configured to open and to

close said scavenging air aperture, said valve element being constructed at least partially from a

buffering material that is softer than material of said thin-body flange's construction thereby

facilitating a seal between said valve element and said thin-body flange when said valve element

is positioned in a closed configuration.

31. (Original) A flange assembly for supporting a scavenging air supply to an internal

combustion engine at a carburetor associated with the engine, said flange assembly comprising:

a thin-body flange configured to be installed upon a receiving carburetor designed to be

associated with an internal combustion engine;

a scavenging air aperture extending through said thin-body flange, said scavenging air

aperture being located in said thin-body flange so that said scavenging air aperture is spaced at a

distance from the receiving carburetor; and

a valve assembly operatively coupled to said thin-body flange and having a valve element

positioned at said scavenging air aperture for opening and closing said scavenging air aperture.

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32. (Original) The flange assembly as recited in claim 31, wherein said thin-body flange is of

one-piece, predominantly flat and rigid construction thereby affecting precision-location of said

scavenging air aperture relative to the receiving carburetor when said thin-body flange is installed

thereupon.

33. (Previously Presented) The flange assembly as recited in claim 31, further comprising:

said thin-body flange being of one-piece construction and comprising two offset planar

portions connected by a transitional portion, each of said two planar portions having exposed side

surfaces on the same side of said thin-body flange; and

said two exposed side surfaces of said two planar portions being substantially parallel,

one to the other, and offset, one from the other in different planes.

34. (Original) The flange assembly as recited in claim 31, further comprising:

fastener accommodating apertures extending through said thin-body flange and located to

align with assembly screw receivers in the receiving carburetor when said thin-body flange is

installed thereupon thereby facilitating precision-placement of said scavenging air aperture with

respect to the receiving carburetor when said thin-body flange is installed thereupon.

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35. (Original) The flange assembly as recited in claim 34, wherein said thin-body flange is of

one-piece, predominantly flat and rigid construction thereby affecting precision-location of said

scavenging air aperture relative to said fastener accommodating apertures extending through said

thin-body flange.

36. (Previously Presented) The flange assembly as recited in claim 31, further comprising:

said scavenging air aperture being oblong in shape through said thin-body flange for

establishing an inlet to a multi-branch manifold when said flange assembly is installed on a

receiving carburetor and included on an internal combustion engine.

37. (Original) The flange assembly as recited in claim 31, further comprising:

said thin-body flange having a thickness, a length and a width;

said length and said width of said thin-body flange being greater than said thickness; and

said scavenging air aperture extending through said thin-body flange and across said

thickness thereof in a direction substantially perpendicular to a longitudinal axis of said thin-

body flange thereby causing air flow through said scavenging air aperture to be substantially

parallel with air flow through a combustion air channel of the receiving carburetor.

38. (Currently Amended) The flange assembly as recited in claim 37, further comprising:

an axle axel of said valve assembly being positioned at said scavenging air aperture on

said thin-body flange for associating a valve element with said scavenging air aperture.

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39. (Currently Amended) The flange assembly as recited in claim 37, further comprising:

an axle axel-for a valve element of a butterfly valve, said axle axel-extending across said

scavenging air aperture and being rotatably supported in axle axel apertures in said thin-body

flange.

40. (Previously Presented) The flange assembly as recited in claim 37, further comprising:

a pivot hinge receiver, said pivot hinge receiver positioned adjacent to said scavenging air

aperture on said thin-body flange for associating a flapper-type valve element with said

scavenging air aperture.

41. (Original) The flange assembly as recited in claim 37, wherein among the dimensions of said

thin-body flange, said length dimension is greater than said width dimension, and said width

dimension is greater than said thickness dimension.

42. (Previously Presented) The flange assembly as recited in claim 37, further comprising:

said valve element being rotatably coupled to said thin-body flange and being constructed

at least partially from a buffering material that is softer than the construction material of said

thin-body flange thereby facilitating a seal between said valve element and said thin-body flange

when said valve element is positioned in a closed configuration.

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43. (Previously Presented) The flange assembly as recited in claim 37, further comprising:

said valve element being rotatably coupled to said thin-body flange; and

a buffering component positioned between said valve element and said thin-body flange

in a closed configuration of said valve element, said buffering component constructed from

material softer than material used in construction of said valve element thereby facilitating a seal

between said valve element and said thin-body flange when said valve element is positioned in

the closed configuration.

CLAIMS 44-48. (Cancelled)